

CLAIMS

Now, therefore, the following is claimed:

1. A system for editing parametric texture maps, comprising:
a plurality of format-specific editors, each of the format-specific editors configured to perform at least one spatial operation on a parametric texture map (PTM) of a different format; and
a PTM editing tool configured to receive a command to perform a spatial operation on a parametric texture map identified by the command, the PTM editing tool configured to select one of the format-specific editors based on a format of the identified PTM and to invoke the selected format-specific editor in response to the command.
2. The system of claim 1, wherein the commanded spatial operation is a rotation of the identified parametric texture map.
3. The system of claim 1, wherein the commanded spatial operation is a resizing of the identified parametric texture map.
4. The system of claim 1, wherein each texel of the identified parametric texture map comprises data defining a luminosity value that is a function of light direction.
5. The system of claim 1, wherein each of the format-specific editors is configured to perform a rotation of a parametric texture map of a different format.

6. The system of claim 1, wherein each of the format-specific editors is configured to perform a resizing of a parametric texture map of a different format.

7. A system for editing parametric texture maps, comprising:
a plurality of format-specific editors, each of the format-specific editors configured to perform at least one spatial operation on a parametric texture map (PTM) of a different format; and
a PTM editing tool configured to identify at least one spatial operation to be performed on a particular parametric texture map in order to complete a desired task, the PTM editing tool configured to determine a format of the particular parametric texture map and to identify which of the format-specific editors, based on the determined format, is compatible with the determined format of the particular parametric texture map, the PTM editing tool further configured to instruct the identified format-specific editor to perform the identified spatial operation on the particular parametric texture map.

8. The system of claim 7, wherein the identified spatial operation is a rotation of the identified parametric texture map.

9. The system of claim 7, wherein the identified spatial operation is a resizing of the identified parametric texture map.

10. The system of claim 7, wherein each texel of the identified PTM comprises data defining a luminosity value that is a function of light direction.

11. The system of claim 7, wherein each of the format-specific editors is configured to perform a rotation of a parametric texture map of a different format.

12. The system of claim 7, wherein each of the format-specific editors is configured to perform a resizing of a parametric texture map of a different format.

13. A system for editing parametric texture maps, comprising:
a plurality of format-specific editors, each of the format-specific editors configured to perform at least one spatial operation on a parametric texture map of a different format;

means for identifying a spatial operation to be performed on a particular parametric texture map;

means for determining a format of the particular parametric texture map;

means for selecting, based on the determining means, one of the format-specific editors that is configured to perform the identified spatial operation on a parametric texture map of the determined format; and

means for invoking the selected format-specific editor such that the invoked format-specific editor performs the identified spatial operation on the particular parametric texture map.

14. A computer-readable medium having a program, the program comprising:

- logic for receiving commands for editing parametric texture maps identified by the commands;
- logic for identifying, based on the commands, spatial operations to be performed on the parametric texture maps;
- logic for determining a format of each of the parametric texture maps; and
- logic for selecting different format-specific editors for performing the spatial operations, wherein the selecting logic, for each of the identified spatial operations, is configured to determine which of the format-specific editors is compatible with the determined format of the parametric texture map on which the identified spatial operation is to be performed and to instruct the compatible format-specific editor to perform the identified spatial operation.

15. A method for editing parametric texture maps, comprising:

- identifying a spatial operation to be performed on a particular parametric texture map;
- determining a format of the particular parametric texture map;
- identifying, based on the determining, which of the format-specific editors is compatible with the determined format of the particular parametric texture map, each of the format-specific editors configured to perform at least one spatial operation on a parametric texture map (PTM) of a different format; and
- invoking the identified format-specific editor such that the invoked format-specific editor performs the identified spatial operation on the particular parametric texture map.

16. The method of claim 15, wherein each identifying is performed in response to a command that identifies the particular parametric texture map.
17. The method of claim 15, wherein the identified spatial operation is a texture map rotation.
18. The method of claim 15, wherein the identified spatial operation is a texture map resizing.
19. The method of claim 15, wherein each texel of the particular parametric texture map comprises data defining a luminosity value that is a function of light direction.

20. A texture editing method, comprising:

receiving commands for editing parametric texture maps identified by the commands;

identifying, based on the commands, spatial operations to be performed on the parametric texture maps;

identifying a format of each of the parametric texture maps;

determining, for each of the identified spatial operations, which of a plurality of format-specific editors is compatible with the determined format of the parametric texture map on which the identified spatial operation is to be performed; and

instructing different format-specific editors to perform the spatial operations based on the determining.

21. The method of claim 20, wherein the spatial operations include texture map rotations and texture map resizing.